OIPE IAP83 OCT 07 2005 PATENT & TRADEMARK OFFICE

SEQUENCE LISTING

<110> KRIEG, PAUL A.

<120> METHODS FOR MODULATING ANGIOGENESIS WITH APELIN COMPOSITIONS

<130> 20825-0004

<140> 10/799,417
<141> 2004-03-12

<150> 60/454,034
<151> 2003-03-12

<150> 60/528,155
<151> 2003-12-09

<160> 21

<170> PatentIn Ver. 3.3

<210> 1
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1
Met Asn Leu Arg Leu Cys Val Gln Ala Leu Leu Leu Leu Trp Leu Ser
1 5 10 15

Leu Thr Ala Val Cys Gly Gly Ser Leu Met Pro Leu Pro Asp Gly Asn
20 25 30

Gly Leu Glu Asp Gly Asn Val Arg His Leu Val Gln Pro Arg Gly Ser
35 40 45

Arg Asn Gly Pro Gly Pro Trp Gln Gly Gly Arg Arg Lys Phe Arg Arg
50 55 60

Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
65 70 75

<210> 2
<211> 36
<212> PRT
<213> Homo sapiens

<400> 2
Leu Val Gln Pro Arg Gly Ser Arg Asn Gly Pro Gly Pro Trp Gln Gly
1 5 10 15

Gly Arg Arg Lys Phe Arg Arg Gln Arg Pro Arg Leu Ser His Lys Gly
20 25 30

Pro Met Pro Phe
35

<210> 3
<211> 17
<212> PRT
<213> Homo sapiens

<400> 3
Lys Phe Arg Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro
1 5 10 15

Phe

<210> 4
<211> 13
<212> PRT
<213> Homo sapiens

<400> 4
Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
1 5 10

<210> 5
<211> 13
<212> PRT
<213> Brachydanio rerio

<400> 5
Pro Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
1 5 10

<210> 6
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 6
gtgcccaaag tctgagattc atgtt 25

<210> 7
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic primer

<400> 7
gattcatgtt tcttgtggct gagtg 25

<210> 8
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 8
gattgatctt tgttgtgcct cagtg 25

<210> 9
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 9
aaggctgtgt ggaagcaata gaaag 25

<210> 10
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 10
aagcctctgt gcaaccaata caaag 25

<210> 11
<211> 7
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic consensus sequence

<400> 11
bacgtgk 7

<210> 12
<211> 10
<212> DNA
<213> Homo sapiens

<400> 12
gagacgtgga 10

<210> 13
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 13
cagacgtgac a 11

<210> 14
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 14
tgtacgtgg 9

<210> 15
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 15
aatgacgtga tg 12

<210> 16
<211> 8
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 16
tacgtggg 8

<210> 17
<211> 380
<212> PRT
<213> Homo sapiens

<400> 17

```
Met Glu Glu Gly Gly Asp Phe Asp Asn Tyr Tyr Gly Ala Asp Asn Gln
  1               5                  10                  15

Ser Glu Cys Glu Tyr Thr Asp Trp Lys Ser Ser Gly Ala Leu Ile Pro
             20                  25                  30

Ala Ile Tyr Met Leu Val Phe Leu Leu Gly Thr Thr Gly Asn Gly Leu
         35                  40                  45

Val Leu Trp Thr Val Phe Arg Ser Ser Arg Glu Lys Arg Arg Ser Ala
     50                  55                  60

Asp Ile Phe Ile Ala Ser Leu Ala Val Ala Asp Leu Thr Phe Val Val
 65                  70                  75                  80

Thr Leu Pro Leu Trp Ala Thr Tyr Thr Tyr Arg Asp Tyr Asp Trp Pro
                 85                  90                  95

Phe Gly Thr Phe Phe Cys Lys Leu Ser Ser Tyr Leu Ile Phe Val Asn
            100                 105                 110

Met Tyr Ala Ser Val Phe Cys Leu Thr Gly Leu Ser Phe Asp Arg Tyr
        115                 120                 125

Leu Ala Ile Val Arg Pro Val Ala Asn Ala Arg Leu Arg Leu Arg Val
    130                 135                 140

Ser Gly Ala Val Ala Thr Ala Val Leu Trp Val Leu Ala Ala Leu Leu
145                 150                 155                 160

Ala Met Pro Val Met Val Leu Arg Thr Thr Gly Asp Leu Glu Asn Thr
                165                 170                 175

Thr Lys Val Gln Cys Tyr Met Asp Tyr Ser Met Val Ala Thr Val Ser
            180                 185                 190

Ser Glu Trp Ala Trp Glu Val Gly Leu Gly Val Ser Ser Thr Thr Val
        195                 200                 205

Gly Phe Val Val Pro Phe Thr Ile Met Leu Thr Cys Tyr Phe Phe Ile
    210                 215                 220

Ala Gln Thr Ile Ala Gly His Phe Arg Lys Glu Arg Ile Glu Gly Leu
225                 230                 235                 240

Arg Lys Arg Arg Arg Leu Leu Ser Ile Ile Val Val Leu Val Val Thr
                245                 250                 255

Phe Ala Leu Cys Trp Met Pro Tyr His Leu Val Lys Thr Leu Tyr Met
            260                 265                 270
```

```
Leu Gly Ser Leu Leu His Trp Pro Cys Asp Phe Asp Leu Phe Leu Met
        275                 280                 285

Asn Ile Phe Pro Tyr Cys Thr Cys Ile Ser Tyr Val Asn Ser Cys Leu
    290                 295                 300

Asn Pro Phe Leu Tyr Ala Phe Phe Asp Pro Arg Phe Arg Gln Ala Cys
305                 310                 315                 320

Thr Ser Met Leu Cys Cys Gly Gln Ser Arg Cys Ala Gly Thr Ser His
                325                 330                 335

Ser Ser Ser Gly Glu Lys Ser Ala Ser Tyr Ser Ser Gly His Ser Gln
            340                 345                 350

Gly Pro Gly Pro Asn Met Gly Lys Gly Gly Glu Gln Met His Glu Lys
        355                 360                 365

Ser Ile Pro Tyr Ser Gln Glu Thr Leu Val Val Asp
    370                 375                 380


<210> 18
<211> 14
<212> PRT
<213> Rana sp.

<400> 18
Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
  1               5                  10


<210> 19
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      consensus sequence

<400> 19
Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
  1               5                  10


<210> 20
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 20
Lys Lys Lys Arg
  1
```

<210> 21
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic peptide

<400> 21
Arg Arg Arg Arg
1